

**W9464-02****09/468,452**

APPLICANT

**Chester et al.**

FILING DATE

**12/21/1999**

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**1764**

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	Copy Submitted
	3293192	12/20/1966	Maher et al.	252	430	8/23/1965	<input type="checkbox"/>
	3354078	11/21/1967	Miale et al.	208	120	2/4/1965	<input type="checkbox"/>
	3402996	9/24/1968	Maher et al.	23	112	12/19/1966	<input type="checkbox"/>
	3442797	5/6/1969	Aldridge	208	243	6/23/1966	<input type="checkbox"/>
	3494860	2/10/1968	C.L. Aldridge	208	248	3/11/1968	<input type="checkbox"/>
	3607043	9/21/1971	McDaniel et al.	23	111	11/19/1969	<input type="checkbox"/>
	3676368	7/11/1972	Scherzer et al.	252	455 Z	8/26/1970	<input type="checkbox"/>
	3711422	1/16/1973	Johnson, M. et al.	252	414	9/8/1970	<input type="checkbox"/>
	3977963	8/31/1976	Readal et al.	208	120	4/17/75	<input type="checkbox"/>
	4432890	2/21/1984	Beck et al.	502	62		<input type="checkbox"/>
	4480047	10/30/1984	Beck et al.	502	65	4/7/1983	<input type="checkbox"/>
	4500651	2/19/1985	Lok et al.	502	208	3/31/1983	<input type="checkbox"/>
	4544143	10/1/1985	Cooper et al.	266	271	4/20/1984	<input type="checkbox"/>
	4561968	12/31/1985	Beck et al.	208	120	2/27/1984	<input type="checkbox"/>
	4567029	1/28/1986	Wilson et al.	423	306	7/15/83	<input type="checkbox"/>
	4588702	5/13/1986	Beck et al.	502	65	10/18/84	<input type="checkbox"/>
	4615996	10/7/1986	Occelli	502	65	8/25/83	<input type="checkbox"/>
	4683217	7/28/1987	Lok et al.	502	214	4/13/1984	<input type="checkbox"/>
	4686092	8/11/1987	Lok et al.	423	306	4/13/1984	<input type="checkbox"/>

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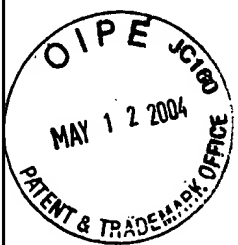
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EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	Copy Submitted
	4690806	9/1/1987	J. Schorfheide	423	230	5/1/1986	<input type="checkbox"/>
	4744970	5/17/1988	Lok et al.	423	306	4/13/1984	<input type="checkbox"/>
	4758419	7/19/1988	Lok et al.	423	306	4/13/1984	<input type="checkbox"/>
	4790982	12/13/1988	Yoo et al.	423	239	4/7/1986	<input type="checkbox"/>
	4793984	12/27/1988	Lok et al.	423	306	4/13/1984	<input type="checkbox"/>
	4794095	12/27/1988	Walker et al.	502	64	7/2/87	<input type="checkbox"/>
	4846960	7/11/1989	Walker et al.	208	119	6/14/88	<input type="checkbox"/>
	4880787	11/14/1989	Bundens et al.	502	65	1/6/1988	<input type="checkbox"/>
	4935216	6/19/1990	Lok et al.	423	328	4/13/1984	<input type="checkbox"/>
	4944864	7/31/1990	Kugler	208	120	3/27/89	<input type="checkbox"/>
	4957718	9/18/1990	Yoo et al.	423	244	11/24/1987	<input type="checkbox"/>
	4957892	9/18/1990	Yoo et al.	502	63	4/7/1988	<input type="checkbox"/>
	4963502	10/16/1990	Teng et al.	437	41	10/3/1989	<input type="checkbox"/>
	4963520	10/16/1990	Yoo et al.	502	64	8/1/1988	<input type="checkbox"/>
	4976847	12/11/1990	Maxwell et al.	208	120	8/24/1989	<input type="checkbox"/>
	5001097	3/19/1991	Pecoraro	502	68	4/16/1990	<input type="checkbox"/>
	5098684	3/24/1992	Kresge et al.	423	277	12/10/90	<input type="checkbox"/>
	5102643	4/7/1992	Kresge et al.	423	328	1/25/90	<input type="checkbox"/>
	5183559	2/2/1993	Kirker et al.	208	119	9/13/1991	<input type="checkbox"/>

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	5198203	3/30/1993	Kresge et al.	423	718	7/24/91	<input type="checkbox"/>
	5248642	9/28/1993	Kumar et al.	502	65	8/12/1992	<input type="checkbox"/>
	5260240	11/9/1993	Guthrie et al.	502	41	12/9/1991	<input type="checkbox"/>
	5376608	12/27/1994	Wormsbecher et al.	502	61	1/27/1993	<input type="checkbox"/>
	5401391	3/28/1995	Collins et al.	208	208 R	3/8/1993	<input type="checkbox"/>
	5482617	1/9/1996	Collins et al.	208	227	8/8/1994	<input type="checkbox"/>
	5525210	6/11/1996	Wormsbecher et al.	208	122	8/30/1994	<input type="checkbox"/>
	5599441	2/4/1997	Collins et al.	208	208 R	5/31/1995	<input type="checkbox"/>
	5601798	2/11/1997	Cooper et al.	423	700	8/30/1994	<input type="checkbox"/>
	5646082	7/8/1997	Tan-no et al.	502	65	6/6/1995	<input type="checkbox"/>
	5705142	1/6/1998	Tan-no et al.	423	700	11/18/1996	<input type="checkbox"/>
	5705729	1/6/1998	Huang	585	722	11/22/1995	<input type="checkbox"/>
	5919354	7/6/1999	Bartek	208	299	5/13/1997	<input type="checkbox"/>
	5956474	9/21/1999	Bissett et al.	395	182.09	12/18/1996	<input type="checkbox"/>
	5965474	10/12/1999	Balko et al.	502	65	4/29/1997	<input type="checkbox"/>

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS SUBMITTED?	Copy Submitted	ENG LANG EQUIV
	1117511	2/2/1982	CA	252	4	No	<input type="checkbox"/>	
	0 159 624 B1	12/18/1991	EP	01B 33/2		No	<input type="checkbox"/>	
	0 461 851 A2	11/6/1991	EP	C10G		No	<input type="checkbox"/>	

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EXAMINER INITIAL*	OTHER DOCUMENTS ( Including author , Title, Date, Pertinent Pages, Etc.)	TRANS SUBMITTED ?	Copy Submitted
	Krishna et al., Additives Improve FCC Process, Hydrocarbon Processing, November 1991 - pages 56-66	No	<input type="checkbox"/>
	Venuto and Habib, Fluid Catalytic Cracking with Zeolite Catalysts, Marcel Dekker, New York 1979, ISBN 0-8247-6870-1	No	<input type="checkbox"/>
	Richard F. Wormsbecher, Alan W. Peters, and James M. Maselli, "Vanadium Poisoning of Cracking Catalysts: Mechanism of Poisoning and Design of Vanadium Tolerant Catalyst System", Journal of Catalyst, Vol. 100, pgs 130-137 (1986).	No	<input type="checkbox"/>
	Occelli, M.L., "Metal Resistant Fluid Cracking Catalysts", ACS Symposium Series, Chapter 21, pg 343 (1990).	No	<input type="checkbox"/>
	"Shape Selective Catalysis in Industrial Applications"; Chen et al., Marcel Dekker Inc., New York 1969, ISBN 0-8247-7856-1.	No	<input type="checkbox"/>
	J. Catalysis 67, 218-222 (1981) by Frilette et al.	No	<input type="checkbox"/>
	Stud. Surf. Catal. 37, 13-27 (1987)	No	<input type="checkbox"/>
	Journal of Catalysis, Vol. 4, p 527 (1965); Vol. 6, p 278 (1966); and Vol. 61, p395 (1980).	No	<input type="checkbox"/>
	Scherzer, "Octane Enhancing Zeolitic FCC Catalysts", Marcel Dekker, New York, 1990, ISBN 0-8247-8399-9.	No	<input type="checkbox"/>
	Intercat, Refining Developments, "Additives Improve FCC Process", by A.S. Krishna, C.R. Hsieh, A.R. English, T.A. Pecararo and C.W. Kuehler, Chevron Research and Technology Company, Richmond, CA.	No	<input type="checkbox"/>
	"Fluid Catalytic Cracking Handbook", Sadeghbeigi, Gulf Publishing, Houston, Texas, ISBN 0-88415-290-1	No	<input type="checkbox"/>

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